Atty 5 ket No.: 10004808-1 Appl. Ser. No.: 09/891,324

IN THE CLAIMS:

In accordance with 37 C.F.R. § 1.121(c), please amend the claims as set forth below.

Please amend Claims 1-12 in the following manner:

1. (Amended) A method of forming a by-pass capacitor on a multi-level metallization device, said method comprising:

forming a first electrode in a first dielectric layer of said multi-level metallization device;

depositing a substantially thin insulator layer over said first dielectric layer of said multi-level metallization device; and

forming a second electrode in a second dielectric layer, wherein said second dielectric layer is formed over said substantially thin insulator layer.

2. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 1, said method further comprising:

patterning said substantially thin insulator layer to substantially cover said first electrode; and

adjusting a thickness of said substantially thin insulator layer.

3. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 2, wherein a dielectric constant of said substantially thin insulator layer is substantially high.

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4. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 3, wherein said substantially thin insulator layer includes silicon nitride.

- 5. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 3, wherein said thickness of said substantially thin insulator layer is between 50 and 100 angstroms. In it should be
- 6. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 3, wherein said dielectric constant of said substantially thin insulator layer is between 4 and 100.
- 7. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 1, said method further comprising: depositing the second dielectric layer over said substantially thin insulator layer; and etching at least one via, said at least one via adapted to receive said second electrode.
- 8. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 7, said method further comprising: polishing said second electrode.

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9. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 1, wherein said forming said first electrode comprises:

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etching said first electrode in the first dielectric layer of said multi-level metallization device.

10. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 1, further comprising:

forming the first electrode in a parallel line configuration.

11. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 1, further comprising:

forming the second electrode in a parallel line configuration.

12. (Amended) The method of forming a by-pass capacitor on a multi-level metallization device according to claim 1, wherein said substantially thin insulator layer comprises a composite of materials.